LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for digitally processing a signal in a frequency domain containing regular ~~elements~~ bursts of unwanted signal, the method comprising the steps of:

(i) establishing timing characteristics of the unwanted signal bursts to establish their positions ~~elements~~ in a portion of said signal;

(ii) generating a time domain window function using said established timing characteristics, said time domain window function being a sinusoidal function having a zero crossing substantially coinciding with the position of each unwanted signal burst ~~element~~; and

(iii) applying the generated window function to said signal portion to selectively reduce the amplitude of said unwanted signal bursts ~~elements~~ relative to other elements of said signal.

2. (Canceled)

3. (Currently Amended) A method according to claim 1, further comprising the steps of:

(iv) applying a Fourier transform to the signal output from step (iii); and

(v) applying an algorithm to restore the shape of peaks in the transformed signal to an approximation of their form in the absence of said unwanted signal bursts ~~elements~~.

4. (Canceled)